# Openfoam User Guide

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**Openfoam User Guide**

OpenFOAM The OpenFOAM Foundation User Guide version 8

22nd July 2020
https://openfoam.org

**OpenFOAM User Guide, Version 8 - foam.sourceforge.net**
OpenFOAM is a free, open source CFD software package released free and open-source under the GNU General Public License through www.openfoam.com. It has a large user base across most areas of engineering and

science, from both commercial and academic organisations. OpenFOAM has an extensive range of features to solve anything from complex fluid flows involving chemical reactions, turbulence and heat transfer, to solid dynamics and electromagnetics.

**OpenFOAM: User Guide: OpenFOAM®:**

**Open source CFD ...**

User Guide Contents; 1 Introduction; 2 OpenFOAM cases. 2.1 File structure of OpenFOAM cases; 2.2 Basic input/output file format; 3 Running applications. 3.1 Running applications; 3.2 Running applications in parallel; 4 Mesh generation and conversion. 4.1 Mesh description; 4.2 Boundaries; 4.3 Mesh generation with the blockMesh ; 4.4 Mesh generation with the snappyHexMesh

**The open source CFD toolbox - openfoam.com**

OpenFOAM User Guide Case Setup. The OpenFOAM User Guide then examines the set up of input data files for a CFD analysis. The input data... Meshing. The OpenFOAM User Guide includes a chapter on meshing. It begins with the mesh structure of OpenFOAM and the... Post-Processing. OpenFOAM is shipped ...

**OpenFOAM User Guide: CFD Direct, Architects of OpenFOAM**

OpenFOAM v5 User Guide Case Setup. The OpenFOAM User Guide then examines the set up of input data files for a CFD analysis. The input data... Meshing.

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**OpenFOAM v5 User Guide: CFD Direct, Architects of OpenFOAM**
OpenFOAM v8 User Guide: 5.4 Mesh generation, snappyHexMesh.

OpenFOAM snappyHexMesh mesher explained including castellated meshing, snapping and layer addition.

**OpenFOAM v8 User Guide: 5.4 Meshing with snappyHexMesh**

Tutorial Guide. A collection of tutorials to help users get started with OpenFOAM covering a range of topics, including incompressible, compressible and multiphase flows, and stress analysis Download PDF; View on-line; Extended Code Guide. Browse the extended code guide to see how OpenFOAM operates under-the-hood. As an open source code, users can directly see how the code is written and learn how the functionality is implemented.

**OpenFOAM® Documentation**

OpenFOAM v8 User Guide: 5.3 Mesh generation with blockMesh. OpenFOAM blockMesh utility explained, with controls over blocks, edges, faces and boundaries.

**OpenFOAM v8 User Guide: 5.3 Mesh generation - blockMesh**

User Guide Contents; 1 Introduction; 2 OpenFOAM cases. 2.1 File structure of OpenFOAM cases; 2.2 Basic input/output file format; 3 Running applications. 3.1 Running applications; 3.2 Running applications in parallel; 4 Mesh generation and conversion. 4.1 Mesh description; 4.2 Boundaries; 4.3 Mesh generation with the blockMesh ; 4.4 Mesh generation with the snappyHexMesh

**A Reference - OpenFOAM**

Overview. Category: Incompressible steady state; incompressible; Turbulence; Finite volume options; Equations. The solver employs the SIMPLE algorithm to solve the continuity equation: \[ \div \u = 0 \] and momentum equation:

**OpenFOAM: User Guide: simpleFoam**

OpenFOAM is the leading free, open source software for computational fluid dynamics (CFD) OpenFOAM is the leading free, open source software for computational fluid dynamics (CFD), owned by the OpenFOAM Foundation and distributed exclusively under the General Public Licence (GPL).

The GPL gives users the freedom to modify and redistribute the software and a guarantee of continued free use, within the terms of the licence.

**OpenFOAM | Free CFD Software | The OpenFOAM Foundation**

Tag archive for OpenFOAM 8. For Ubuntu 16.04LTS, 18.04LTS, 19.10, 20.04 LTS, Windows 10 and

Docker images for other Linux and macOS

**OpenFOAM 8 | OpenFOAM**

The foamDictionaryutility offer several options for writing, editing and adding keyword entries in case files. The utility is executed with an OpenFOAM case dictionary file as an argument, e.g. from within a case directory on the fvSchemesfile.

foamDictionary system/fvSchemes.

### OpenFOAM v8 User Guide: 4.6 Case management

2 1. Introduction cfMesh is a cross-platform library for automatic mesh generation that is built on top of OpenFOAM®1.It is licensed under GPL, and compatible with all recent versions of OpenFOAM® and foam-

extend. cfMesh supports various 3D and 2D workflows, built by using components from the main library, which are extensible and can be combined into various meshing workflows.

**User Guide - Creative Fields**

If the installation is for a single user only, or if the user does not have root access to the machine, we would recommend the installation directory is $HOME/OpenFOAM (i.e. a directory OpenFOAM in the user’s home directory).

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OpenFOAM version 7 provides improved usability, robustness and extensibility, and new developments for heat transfer, particle tracking, reacting multiphase flows, chemistry/combustion, turbulence, thermophysics, mesh motion and more…

**OpenFOAM 7 | OpenFOAM**

OpenFOAM The Open Source CFD Toolbox Programmer’s Guide Version3.0.1 13thDecember2015